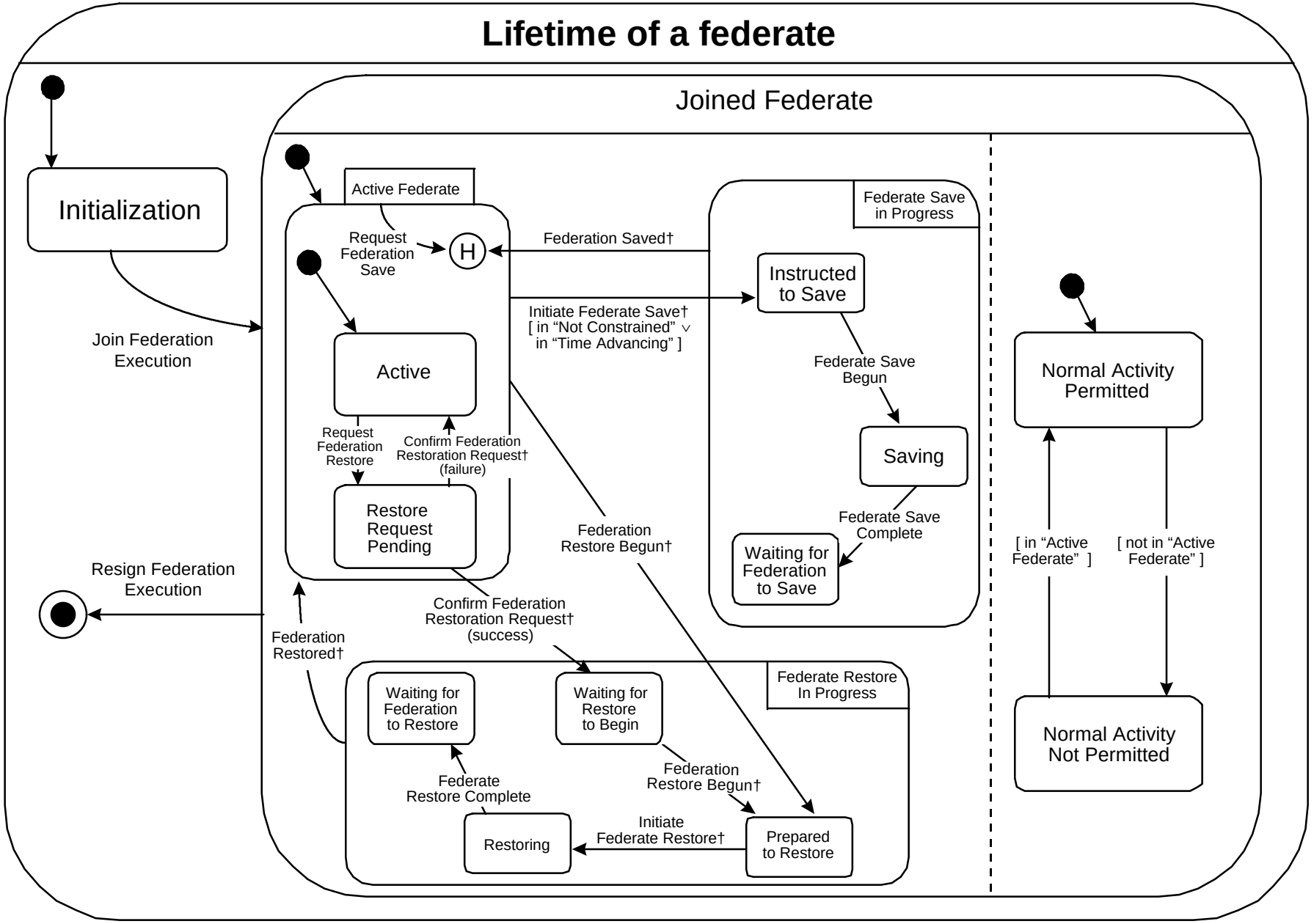
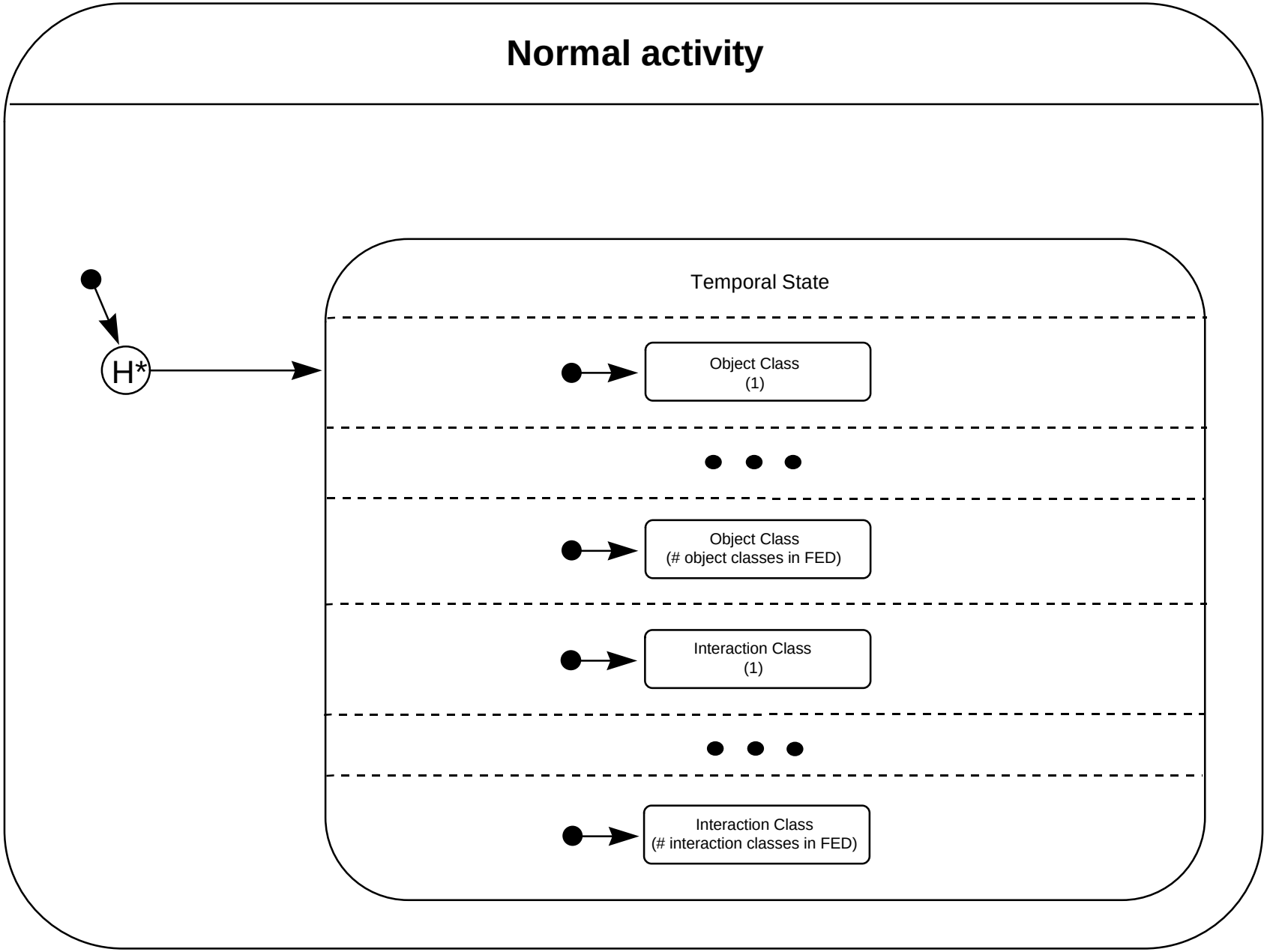
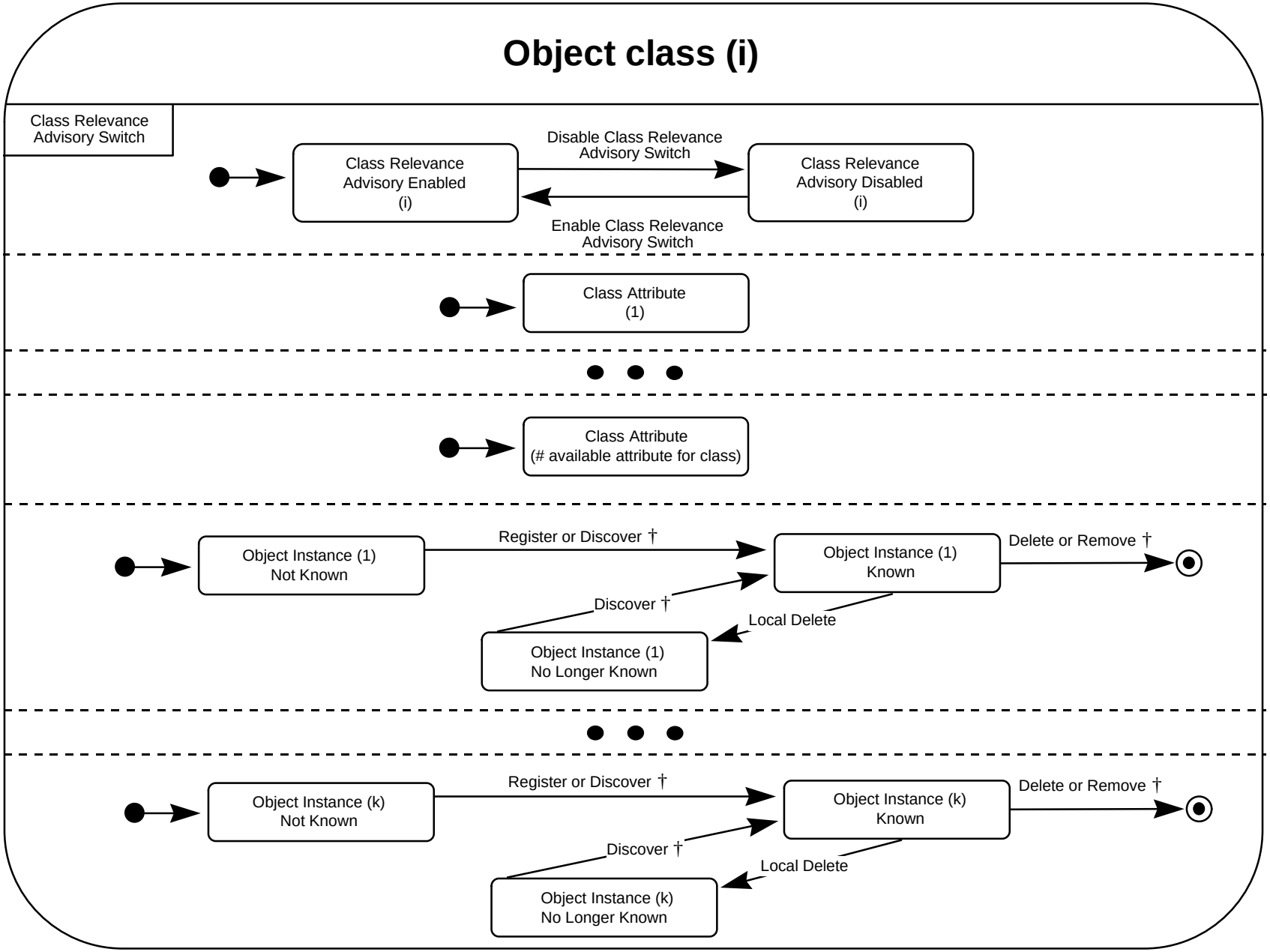
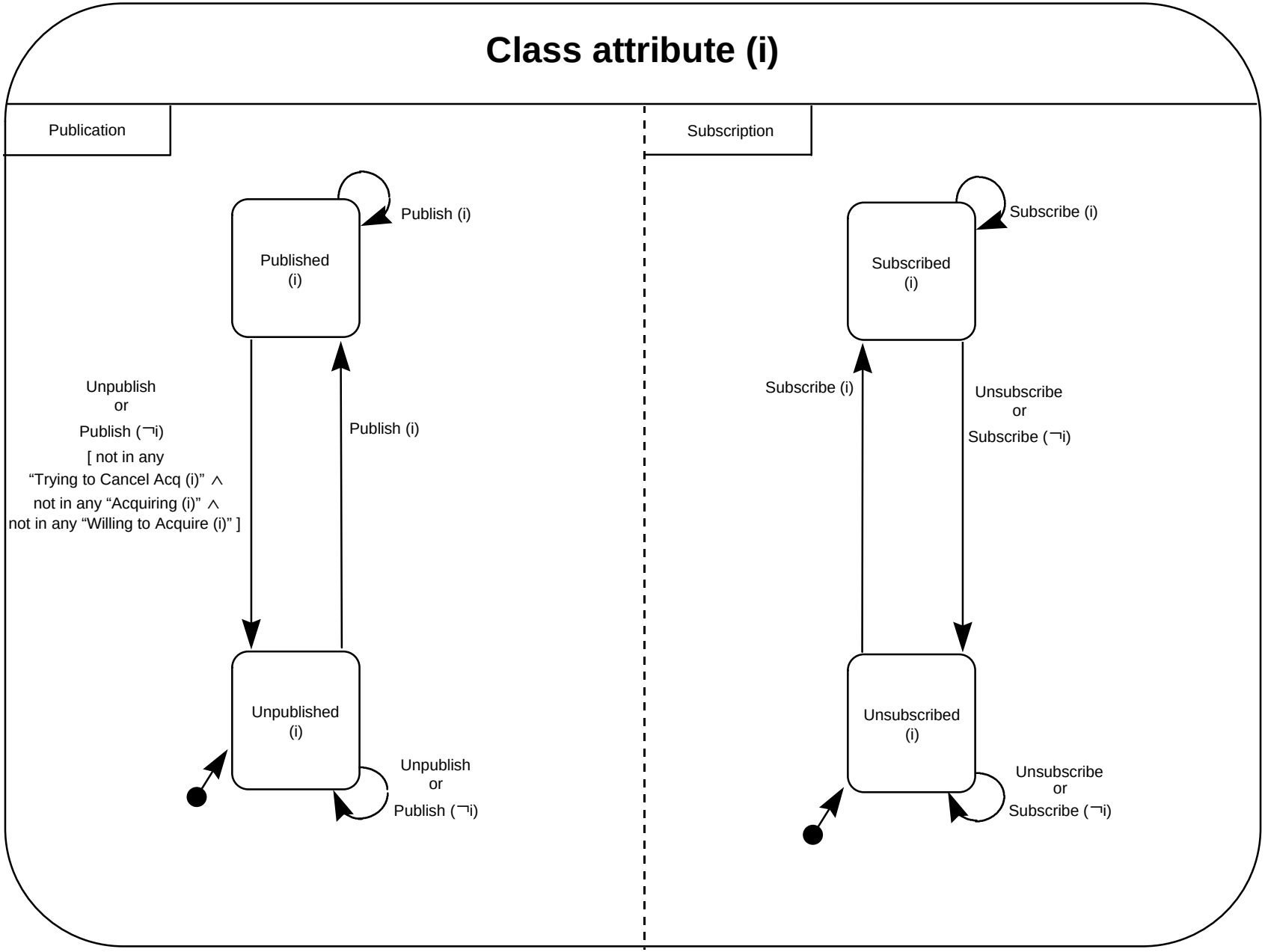
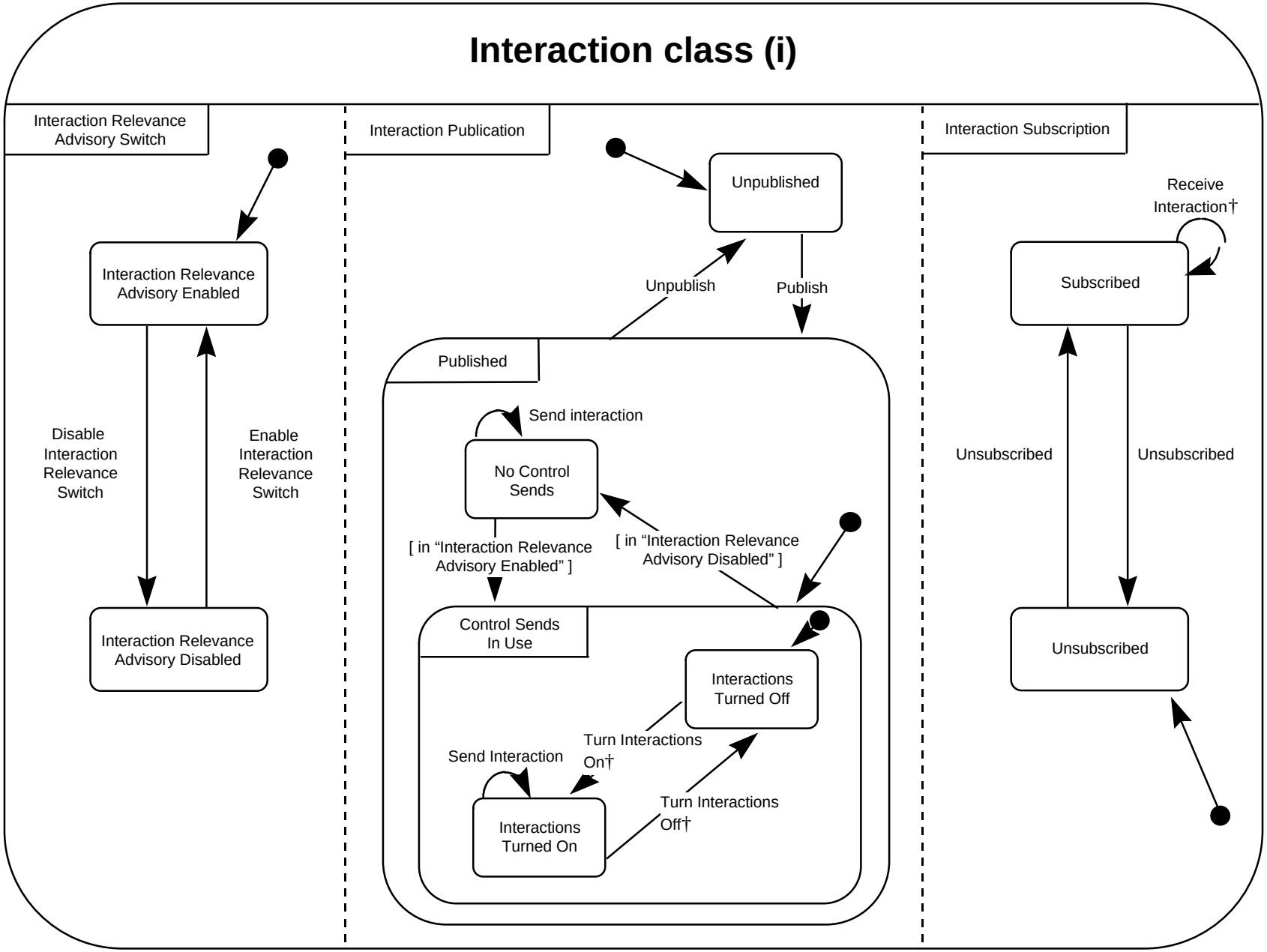
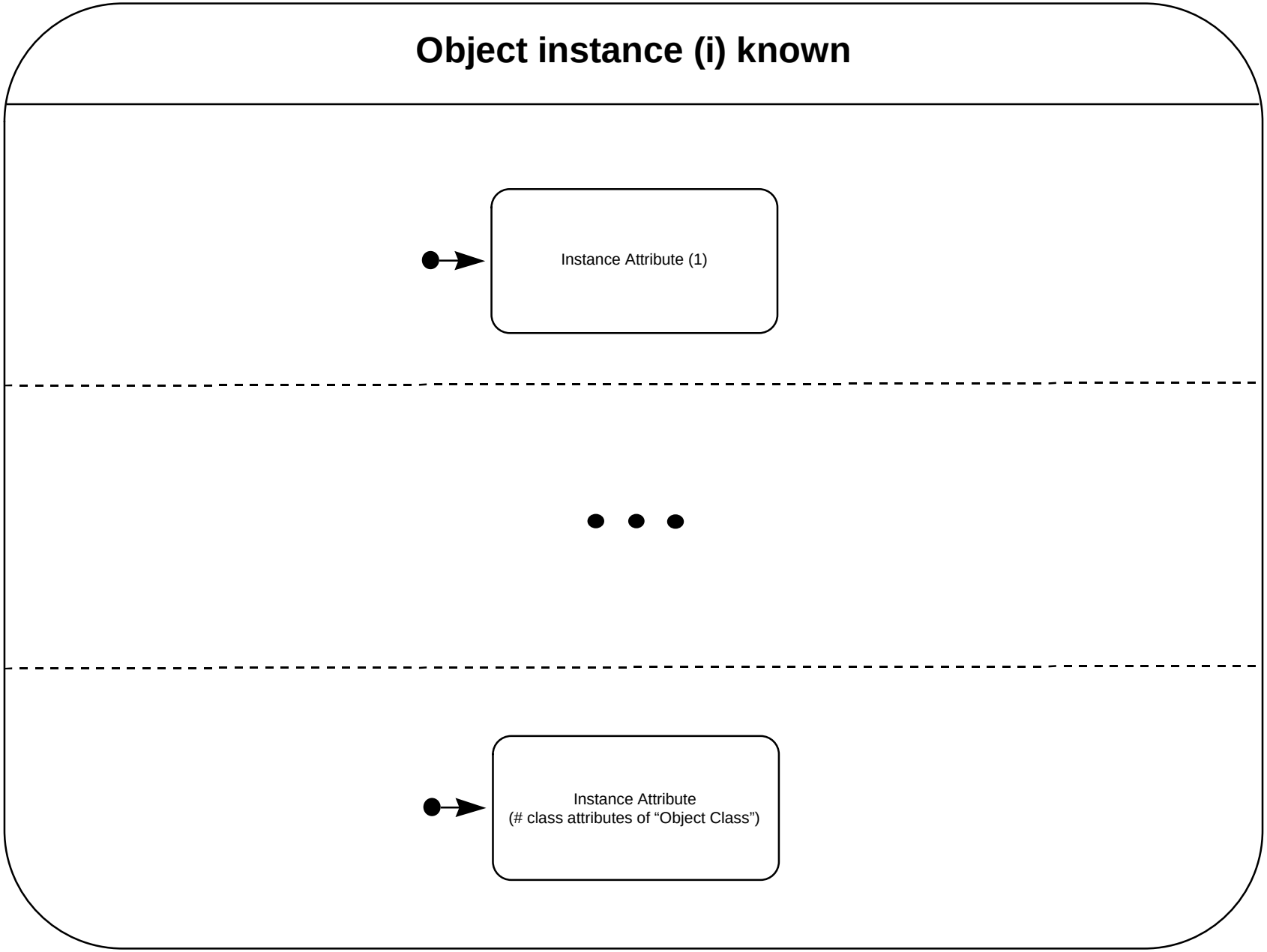

Lifetime of a federate
Joined Federate
Initialization
Join Federation Execution
Resign Federation Execution
Active Federate
Request Federation Save
H
Federation Saved†
Initiate Federate Save†
[in “Not Constrained” ∨ in “Time Advancing”]
Active
Request Federation Restore
Confirm Federation Restoration Request† (failure)
Restore Request Pending
Federate Save in Progress
Instructed to Save
Federate Save Begun
Saving
Federate Save Complete
Waiting for Federation to Save
Federation Restore Begun†
Confirm Federation Restoration Request† (success)
Federation Restored†
Federate Restore In Progress
Waiting for Federation to Restore
Waiting for Restore to Begin
Federate Restore Complete
Federation Restore Begun†
Restoring
Initiate Federate Restore†
Prepared to Restore
Normal Activity Permitted
[in “Active Federate”]
[not in “Active Federate”]
Normal Activity Not Permitted

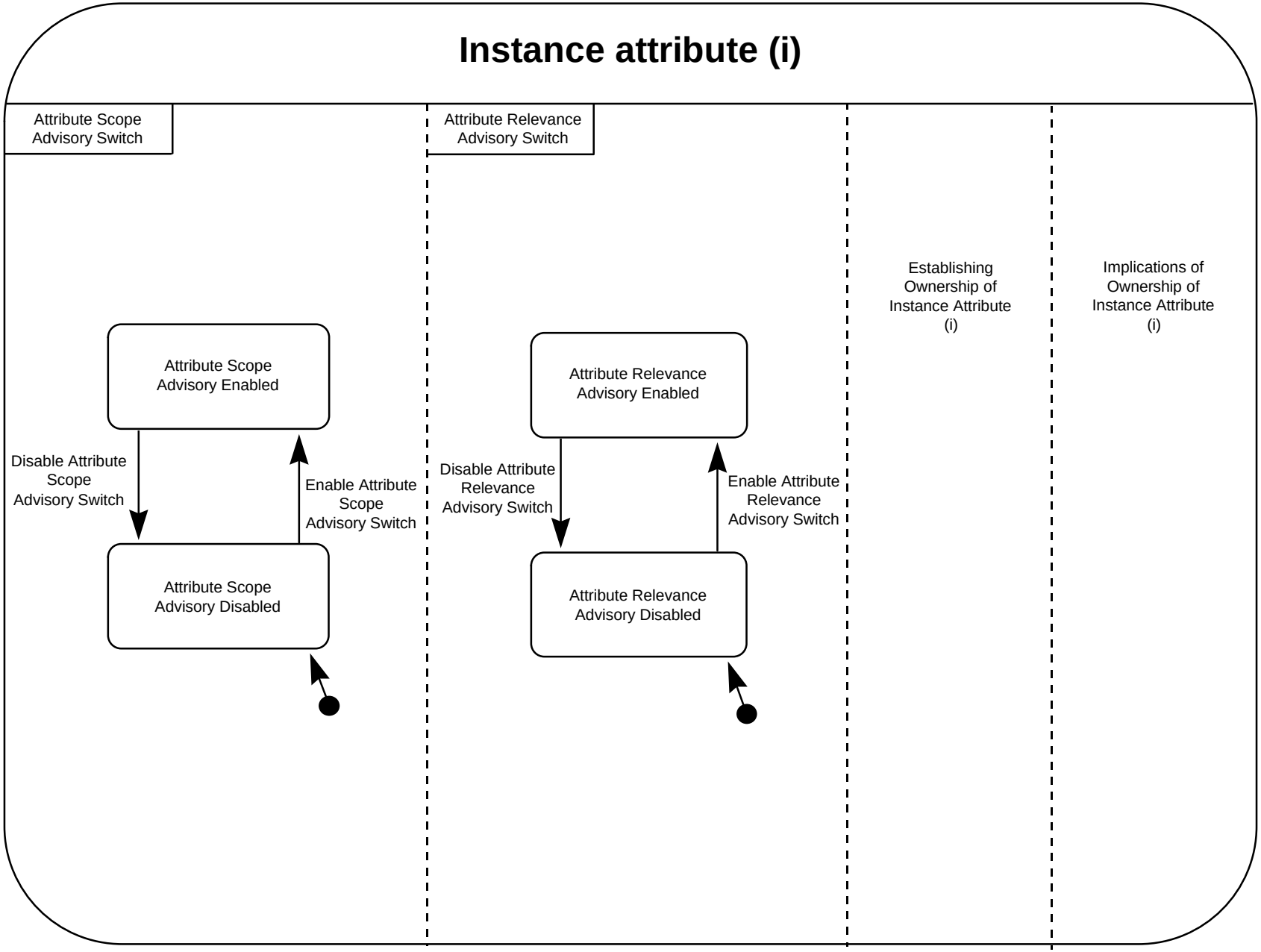

Normal activity
H*
Temporal State
Object Class
(1)
Object Class
(# object classes in FED)
Interaction Class
(1)
Interaction Class
(# interaction classes in FED)


Object class (i)
Class Relevance Advisory Switch
Class Relevance Advisory Enabled (i)
Disable Class Relevance Advisory Switch
Class Relevance Advisory Disabled (i)
Enable Class Relevance Advisory Switch
Class Attribute (1)
Class Attribute (# available attribute for class)
Object Instance (1) Not Known
Register or Discover †
Object Instance (1) Known
Delete or Remove †
Discover †
Local Delete
Object Instance (1) No Longer Known
Object Instance (k) Not Known
Register or Discover †
Object Instance (k) Known
Delete or Remove †
Discover †
Local Delete
Object Instance (k) No Longer Known

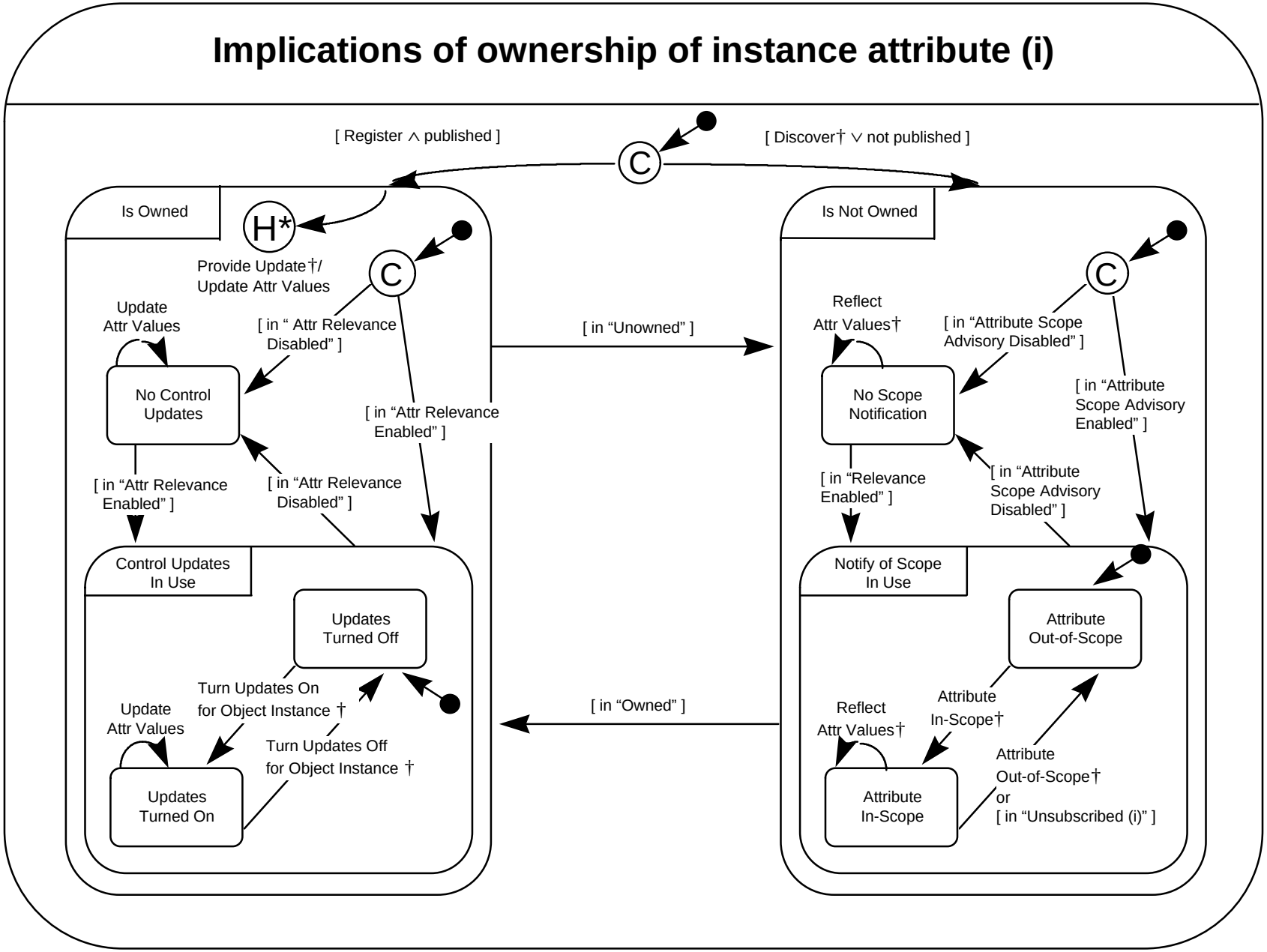

Class attribute (i)
Publication
Subscription
Published
(i)
Publish (i)
Unpublish
or
Publish (¬i)
[not in any
“Trying to Cancel Acq (i)” ∧
not in any “Acquiring (i)” ∧
not in any “Willing to Acquire (i)”]
Publish (i)
Unpublished
(i)
Unpublish
or
Publish (¬i)
Subscribed
(i)
Subscribe (i)
Subscribe (i)
Unsubscribe
or
Subscribe (¬i)
Unsubscribed
(i)
Unsubscribe
or
Subscribe (¬i)


Interaction class (i)
Interaction Relevance Advisory Switch
Interaction Relevance Advisory Enabled
Disable Interaction Relevance Switch
Enable Interaction Relevance Switch
Interaction Relevance Advisory Disabled
Interaction Publication
Unpublished
Unpublish
Publish
Published
Send interaction
No Control Sends
[in "Interaction Relevance Advisory Enabled"]
[in "Interaction Relevance Advisory Disabled"]
Control Sends In Use
Interactions Turned Off
Turn Interactions On†
Send Interaction
Interactions Turned On
Turn Interactions Off†
Interaction Subscription
Receive Interaction†
Subscribed
Unsubscribed
Unsubscribed
Unsubscribed

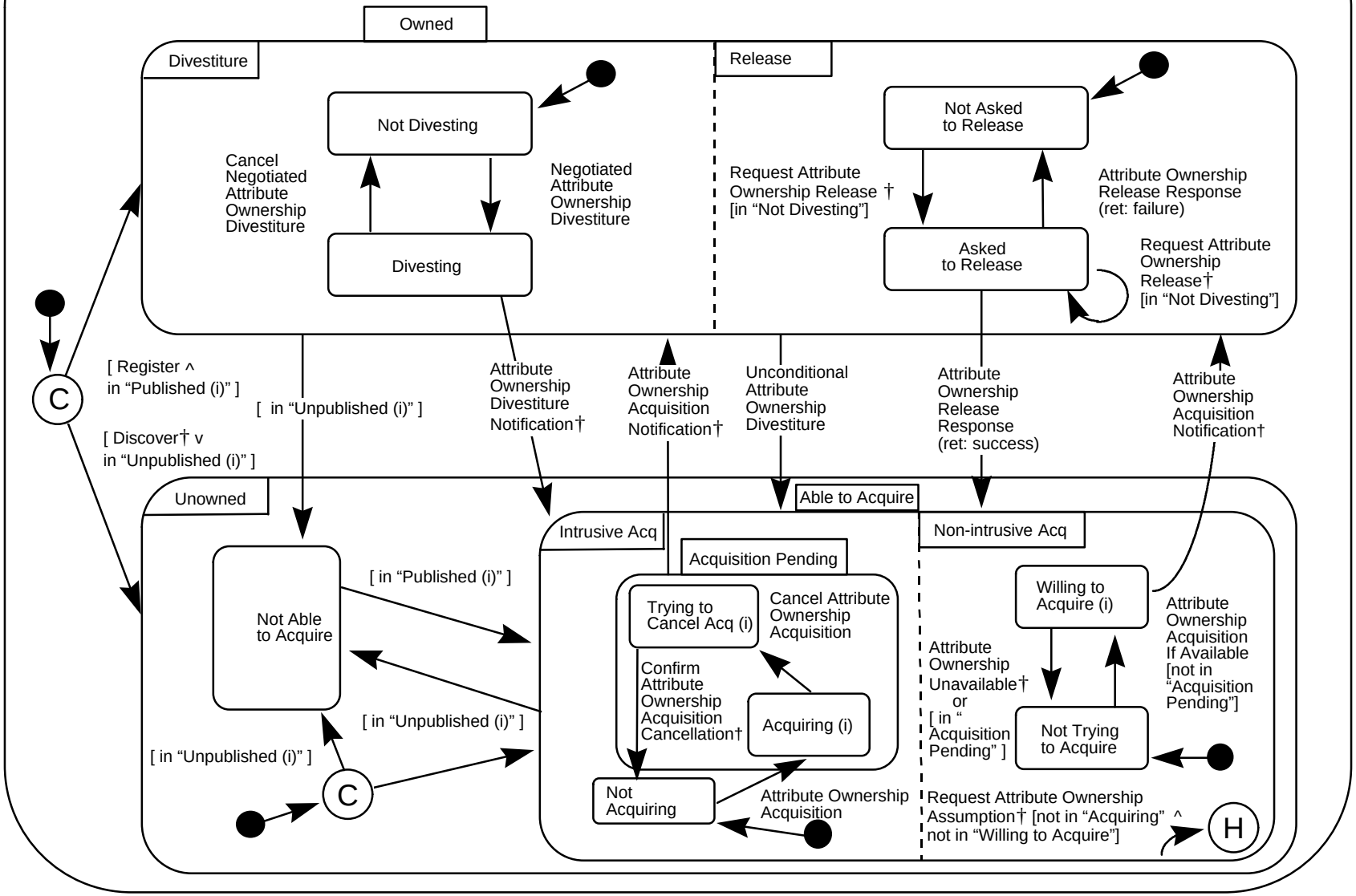

Object instance (i) known
Instance Attribute (1)
Instance Attribute
(# class attributes of “Object Class”)

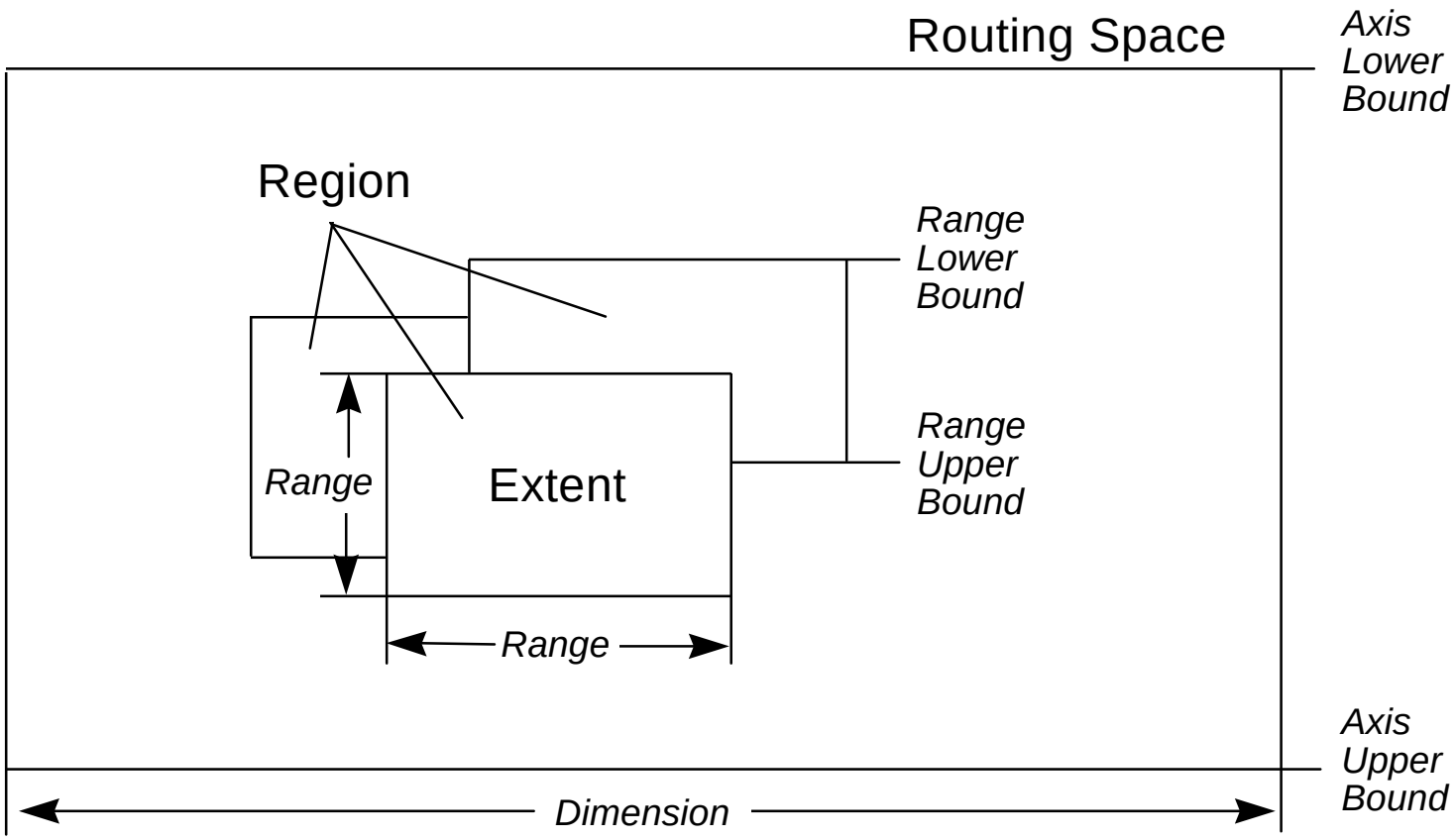

Instance attribute (i)
Attribute Scope Advisory Switch
Attribute Relevance Advisory Switch
Establishing Ownership of Instance Attribute (i)
Implications of Ownership of Instance Attribute (i)
Attribute Scope Advisory Enabled
Disable Attribute Scope Advisory Switch
Enable Attribute Scope Advisory Switch
Attribute Scope Advisory Disabled
Attribute Relevance Advisory Enabled
Disable Attribute Relevance Advisory Switch
Enable Attribute Relevance Advisory Switch
Attribute Relevance Advisory Disabled

Implications of ownership of instance attribute (i)



Establishing ownership of instance attribute(i)





Routing space of two dimensions